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UNITED STATES DEPARTMENT OF AGRICULTURE
Agricultural Research Administration
Bureau of Entomology and Plant Quarantine
Washington 25, D. C.

December 13, 1944

Results of the trap-scouting performed during the summer of 1944 to secure information on the distribution and possible status of the Japanese beetle in localities outside the area regulated by Federal quarantine are summarized in the attached statement. This includes a list of all localities outside the regulated area where trap-scouting was carried on with positive results during the seasons 1935 to 1944, inclusive, with the respective catches, together with a list of localities where soil treatments have been applied at isolated infestations from 1942 to date. The tabulation on soil treatments includes an estimate of the acreage to be treated as a result of beetles collected during 1944.

Soil treatments completed this fall or assured for the spring of 1945 exceed in acreage those of either of the two preceding years, totaling this year over 1,100 acres. These are undertaken in cooperation with the States or municipalities involved. They are attempts to eradicate outlying incipient infestations or, if eradication is impracticable, to suppress the infestations so that they do not become new centers of spread. This type of treating involves the application of lead arsenate at a dosage of 500 pounds per acre. Treatment is recommended within a radius of 300 feet of all collections of female beetles or multiple finds of either sex. Usually treatment is not applied in sections where solitary male beetles are captured, such areas being reserved for trapping the following season more accurately to determine the conditions of infestation.

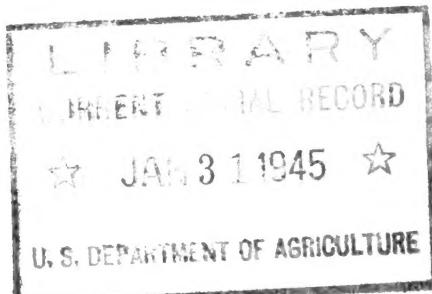
Suppressive measures already applied or assured for the spring of 1945 in localities outside the regulated area, together with State quarantine action in certain outlying areas, will, in most instances, assure protection from spread at least comparable with that afforded if the Federal quarantine were extended. Immediate additions to the area regulated under the Federal Japanese beetle quarantine as a result of the season's trapping records, therefore, will probably be limited to a few election districts in Maryland to include infestations at Flintstone and Hughesville, addition of Ashtabula, Conneaut and Marietta, Ohio as isolated regulated areas, a minor extension of the Toledo, Ohio zone, as well as inclusion of the city of Olean, N. Y. There are a few communities in which soil treating is still under discussion. If not treated they also will be considered for regulation to assure appropriate protection to uninfested States. The North Carolina State Japanese beetle quarantine is being revised to take in the infestation at Blowing Rock and to include spread in several directions from the Asheville area.

The necessity of holding a hearing or conference to consider the extension of the regulated area or modification of the regulations, prior to a revision of the quarantine regulations, can be avoided. It is expected that a revision of the regulations will be issued in the near future.

The accompanying statement is similar to any report on current conditions that might be presented at a public conference. It is issued to make available to State plant quarantine officials and other interested parties the latest information on the distribution and status of the Japanese beetle in areas not now included under Federal quarantine and to acquaint them with the proposed revision of the regulations.

P. N. Annand
Chief of Bureau

Attachments - 3



REPORT OF RESULTS OF JAPANESE BEETLE TRAPPING
AND CONTROL OPERATIONS DURING 1944

There was a 59 percent expansion in the 1944 trap-scouting program, with 66,828 traps set compared to 41,993 operated in 1943. This was possible due to a resumption of trap manufacture after a number of seasons when materials could not be procured for this purpose. A considerably wider area was surveyed, particularly in Florida, New York and North Carolina. Trapping was again performed in 17 States, but the number of cities trapped was increased to 462, or 301 more than last year.

Beetles were captured in 112 localities. This was the first year beetles had been reported from 36 of these. Sixty-nine of the trap collections were of a few scattered beetles each, while 43 infestations were of such a nature as to warrant soil treatments or quarantine action.

Comprehensive soil treating programs were continued by the States of Georgia, Illinois, Indiana, Michigan, Missouri, New York, North Carolina, Ohio, and Tennessee. This comprised the application of lead arsenate at the rate of 500 pounds per acre within a radius of approximately 300 feet of important beetle finds. A few of the infestations were of such scope that soil treating is impracticable, and quarantine action is contemplated.

Five beetles trapped at Jacksonville, Florida constituted the only captures in the State this season. Seven and one-half acres were treated with arsenate of lead to suppress the insect there.

Soil treatments were applied at the sites of the trap catches of 17 beetles each in Atlanta and Toccoa, Georgia. In each city the treatment covered 1.35 acres. A few beetles collected in Augusta and East Point are not considered of sufficient hazard to require soil treatment there this season.

Negligible collections of a few scattered beetles each were determined in Cicero, East St. Louis, and Highland Park, Illinois. There was an increase in the number of beetles trapped in Chicago, from 257 in 1943 to 708 this season. It is estimated that 275 acres require treatment in Chicago to control the spread as now disclosed. A total of 161.95 acres of this area had been treated up to November 25, with the remaining acreage to be completed later.

Soil treatments have been completed at the Indiana beetle collections at Elkhart, Fort Wayne, Hammond, and Indianapolis. Treating is also planned of the premises at which 7 beetles were caught at Logansport. The only other collections made in the State this year were of a few beetles each at Muncie and Richmond.

Reports of the Maryland State trapping activities indicate that beetles were caught at four localities in non-regulated sections of the State. Quarantine extension to include two of the larger infestations is under consideration.

Soil treatments were applied at the infestations at Detroit, Flint and River Rouge, Michigan. Acreages were 48.3, 8.3 and 32.6, respectively. Treating was omitted this year at Dearborn, where the season's trapping disclosed only two beetles.

A solitary beetle was trapped at the Kansas City, Missouri Airport, for a first-record in that city. Four beetles were also caught in St. Louis. This is an improvement in the St. Louis situation, 14 beetles having been trapped there in 1943. Both of these minor infestations were treated by the State, 1.58 acres at Kansas City and 1.91 acres at St. Louis having received lead arsenate applications.

Trapping in New York resulted in first-record collection of beetles at seven points and disclosure of carry-over beetle populations at 12 other localities. Soil treatments have been completed at Geneva, Newark and Williamson. Treatments are scheduled at Jamestown and Niagara Falls in the spring of 1945. Definite decision has not been made as to whether soil treatment will be undertaken by the municipalities of North Tonawanda and Waterloo. Olean, where 46 beetles were caught, will not be treated but will be taken under regulation.

Trapping in North Carolina resulted in the discovery of beetles in 22 new localities. The insect was also found to have persisted in 17 other communities. Seventeen of the collections in non-quarantined area were of a few beetles each, in sections not requiring soil treatment. Eight are within the area already under State quarantine. Soil treating has been completed in an additional 13 infested centers. The infestation at Blowing Rock has intensified to such an extent that soil treatment with lead arsenate is impracticable and it has been recommended for addition to the State quarantined area. Spread of infestation from the Asheville regulated area requires the adiution of two townships to the restricted zone there. Additional applications of spore dust of the type "A" milky disease of the Japanese beetle larva were made in March 1944 to 180 acres in the Asheville area. These were made to control spread of infestation some distance beyond the area treated with spore dust in April 1941.

Except for three first-record beetle collections, two of them of solitary beetles each, the 23 localities in which beetles were trapped in Ohio were known infested centers where practical control work has been performed in previous years. In the State's extensive 1944 soil treating program, applications of lead arsenate have been made at 14 localities. Six of the remaining collection points have so few beetles that treating is not required. An explosive type of spread in Ashtabula, Conneaut, and Marietta has increased the infested areas there to such an extent that soil treatment is not considered feasible. Addition of these three sections to the Federally-regulated area is contemplated.

Two beetle centers in South Carolina, one of two beetles at Florence and the other of 47 beetles at Greenville, were determined this season. The point at which two beetles were trapped will be retrapped next season. Treatment of 15 acres to control the Greenville infestation has been recommended to State officials and is under consideration. Soil treating was performed in Greenville in the spring of 1943, but was omitted following the capture of 20 beetles there in the summer of 1943.

Trapping in Tennessee resulted in the collection of a solitary beetle at Bristol, in which community two beetles were trapped on the Virginia side of the State line, plus an additional six beetles caught at Mountain City, where no previous infestation had been determined. The State applied lead arsenate to 1.75 acres at the latter point.

Positive trapping results in Vermont this season were limited to the first-record collection of a solitary beetle at Richmond.

There was a uniform reduction in all Virginia infestations previously determined outside the regulated area. Positive catches were limited to Bristol, 2 beetles; Harrisonburg, 11; Lynchburg, 5; Warsaw, 2; and Williamsburg, 3. The 11 beetles at Harrisonburg were collected in a single trap situated on a plot that received soil treatment in the spring of 1943. None of the other collections was of a nature to demand immediate soil treatment. Trapping was with negative results in Lexington, Waynesboro, and Woodstock, where soil treatments were applied following the collection of beetles there in 1943. Scouting in Shenandoah indicated the presence of beetles in that town. Exact extent of this infestation will be determined by trapping there next season.

JAPANESE BEETLE TRAPPING
OUTSIDE PRESENT REGULATED AREA
1935 - 1944

POSITIVE RESULTS

Location	1944		1943		1942		1941		1940		1939		1938		1937		1936		1935	
	Traps J.B.																			
FLORIDA																				
Jacksonville	625	5	12	-	295	1	600	-	600	5	12	-	12	-	792	-	-	-	-	
Miami	900	-	-	-	300	1	600	-	600	5	12	-	12	-	792	-	-	-	-	
Tampa	600	-	-	-	300	1	600	-	600	5	12	-	12	-	792	-	-	-	-	
GEORGIA																				
Atlanta	1000	17	1000	8	1025	4	2369	24	3109	32	3200	40	3033	122	1487	6	396	-	-	
Augusta	300	9	292	11	300	5	64	2	50	17	400	-	-	-	592	1	-	-	-	
Chamblee	25	-	25	-	25	-	64	-	50	-	400	-	-	-	-	-	-	-	-	
East Point	100	3	100	5	100	4	350	7	440	137	400	142	-	-	-	-	-	-	-	
Gainesville	-	-	-	-	100	-	300	1	200	2	-	60	-	50	-	-	-	-	-	
Jonesboro	-	-	-	-	-	-	-	-	83	-	15	-	-	-	-	-	-	-	-	
Savannah	300	-	-	-	297	-	-	-	12	-	298	-	12	3	600	-	395	1	-	
Toccoa	92	17	100	21	50	3	100	-	123	2	42	-	-	100	-	-	-	-	-	
ILLINOIS																				
Bloomington	50	-	-	-	200	1	300	1	407	10000	462	9838	549	9926	330	395	384	7500	3740	3065
Chicago	950	708	5738	257	7550	170	9200	407	10000	-	-	-	-	-	-	-	-	-	-	
Cicero	250	3	500	16	599	1	600	10	600	5	800	24	800	1	1234	3	1102	2	1060	
East St. Louis	300	2	500	16	599	-	300	-	-	-	-	-	385	-	-	-	-	-	3	
Elgin	50	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Evanston	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Highland Park	500	10	400	63	600	173	1100	5608	-	-	800	16	600	1	400	20	-	-	-	
Highwood	-	-	100	-	200	1	-	-	300	-	-	-	-	-	-	-	-	-	-	
Oak Park	250	-	300	1	-	-	-	-	300	1	-	-	600	-	800	-	-	-	-	
INDIANA																				
Bedford	50	-	-	-	99	-	240	1	-	250	-	300	3	-	-	-	-	-	-	-
Bluffton	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
East Chicago	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Elkhart	390	35	415	289	289	6	300	39	299	77	216	105	300	1	400	-	-	-	-	-
Fort Wayne	615	86	555	24	596	14	1300	1200	1200	52	1500	105	1600	20	800	18	399	5	-	-
Hammond	296	54	200	24	400	18	24	24	300	50	400	3	400	-	-	-	-	-	-	-
Indianapolis	1000	20	965	32	1195	7	2514	21	2700	160	3280	76	3600	10	3500	12	3500	28	2434	57
Logansport	300	7	300	7	300	9	317	5	313	13	400	1	-	-	-	-	-	-	-	
Muncie	50	1	-	-	-	-	195	-	-	-	-	-	-	-	-	-	-	-	-	
Newcastle	-	-	-	-	200	-	200	-	200	2	-	-	-	-	-	-	-	-	-	
Richmond	300	4	300	17	298	556	327	4	300	7	400	1	-	-	-	-	-	-	-	
South Bend	-	-	-	-	-	-	1126	-	1200	12	1600	-	1600	8	800	45	400	3	-	
Terre Haute	300	-	-	-	400	1	430	18	-	-	-	-	-	-	-	-	397	-	-	
Warsaw	-	-	-	-	100	-	195	2	194	60	300	2	-	-	-	-	-	-	-	
Whiting	-	-	100	-	400	1	300	4	250	18	100	1	200	-	-	-	-	-	-	
IOWA																				
Ft. Madison	-	-	-	-	-	-	-	-	-	-	200	-	200	1	-	-	-	-	-	-
KENTUCKY																				
Lexington	-	-	-	-	274	1	1225	1	1200	4	600	13	597	1	391	1	400	1	2	-
Louisville	-	-	-	-	590	-	-	-	-	-	1586	62	600	10	800	2	-	-	-	-
MAINE																				
Augusta	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	253	-	200	
Bangor	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	301	-	293	
Bar Harbor	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	120	-	120	
Bath	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	175	-	203	
Brunswick	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	71	-	84	
Ellsworth	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	125	-	72	
MARYLAND																				
*Baltimore	10	11	-	-	9	-	15	1	-	-	-	-	-	-	-	-	-	-	-	-
Chaptico	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Flintstone	10	67	8	4	9	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Hughesville	109	1475	50	84	50	18	100	7	225	4	-	1	192	-	10	-	14	-	20	3
Leonardtown	4000	95	3580	86	5056	32	7000	225	6000	252	5250	115	5313	82	5045	67	4586	128	790	23
Mechanicsville	444	4	41	7	68	5	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Oakland	30	2	30	7	-	-	-	-	-	-	25	-	-	-	-	-	-	-	-	-
MICHIGAN																				
Birmingham	200	-	200	-	161	5	200	2	200	-	200	6	-	-	-	-	-	-	-	-
Dearborn	300	2	300	2	366	1	400	5	400	-	200	5	780	1	796	6	4586	1	-	-
Detroit	4000	11	704	37	197	80	7000	225	6000	252	5250	115	5313	82	5045	67	4586	128	790	23
Flint	700	-	-	-	-	-	100	-	200	-	200	25	5	-	-	-	-	-	-	-
Grosse Point Farms	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Highland Park	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
Lincoln Park	-	-	100	-	89	2	-	-	100	1	200	5	-	-	-	-	-	-	-	-
Melvindale	100	-	100	1	100	4	100	2	100	1	200	5	-	-	-	-	-	-	-	-
Pontiac	-	-	-	-	-	-	179	-	-	-	-	-	-	-	-	-	50	1	398	-
River Rouge	200	42	200	24	100	1	-	-	-	-	-	-	200	-	-	-	-	-	-	-
MISSOURI																				
Bridgeton (St. Louis-Lambert Field)	20	1	19	-	77	1	108	3	51	1	-	-	-	-	-	-	-	-	-	-
*Kansas City (Airport)	10	4	2379	14	7921	6	10168	15	12299	30	12230	26	12500	27	12557	1	11562	88	10070	1232
St. Louis	4792	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-
NEW HAMPSHIRE																				
Woodsville	-	-	-	-	-	-	-	-	-	-	-	-	1	-	12	-	-	100	-	-

* First record

JAPANESE BEETLE TRAPPING
1935 - 1944

Location	1944	1943	1942	1941	1940	1939	1938	1937	1936	1935
	Traps J.B.									
NEW YORK										
Albion	-	-	-	-	-	-	-	-	-	-
Alexandria Bay	25	-	-	-	30	-	-	100	1	-
Avon	80	-	97	37	100	196	25	18	-	-
Batavia	100	-	-	100	2	-	300	1	400	-
Bath	-	-	-	-	-	30	1	100	200	204
Canandaigua	200	4	298	4	200	-	200	2	200	35
* Chestertown	50	2	-	-	-	-	5	100	4	-
Dansville	-	-	200	-	194	-	200	6	150	10
Dundee	-	-	-	-	-	30	-	1	40	-
Dunkirk	100	1	200	11	300	3	-	116	100	-
Geneva	200	197	196	37	200	9	199	4	200	197
Hammondsport	-	-	-	-	-	-	15	200	1	-
Jamestown	400	31	500	154	597	98	-	21	800	398
Keeseeville	-	-	100	-	101	1	-	-	37	1
* Lake George	100	1	-	-	-	-	-	-	204	1
Lockport	-	-	200	-	79	-	-	-	-	-
Lowville	-	-	100	-	77	1	-	-	195	1
Lyons	50	-	200	1	-	-	40	-	-	-
Malone	-	-	192	-	200	1	200	12	-	-
Massena	50	-	-	-	-	200	-	4	200	-
Mayville	-	-	-	-	-	-	30	1	-	-
Medina	100	2	300	2	-	-	-	100	1	-
Newark	200	7	200	1	300	65	299	44	200	150
Niagara Falls	394	20	500	71	600	216	320	510	200	13
North Tonawanda	200	22	279	7	300	4	-	-	800	10
Ogdensburg	100	-	200	315	198	14	300	15	-	403
Olean	200	46	-	-	-	-	-	-	200	7
Palmyra	107	-	391	-	100	7	30	1	400	209
Penn Yan	-	-	99	-	100	3	-	-	200	2
Plattsburgh	300	-	282	5	242	14	301	4	-	-
* Port Henry	100	1	-	-	-	-	-	-	207	-
Rouses Point	-	-	100	-	100	5	-	-	40	-
* Schroon Lake	50	2	-	-	-	-	-	-	-	-
Seneca Falls	-	-	-	-	200	1	-	-	-	96
Silver Creek	100	7	100	60	100	104	-	55	60	1
* Springlake	15	1	-	-	-	-	-	-	50	-
* Ticonderoga	100	2	-	-	195	-	-	-	-	-
Waterloo	200	18	197	171	100	33	-	30	-	-
Westfield	100	2	192	27	-	-	-	200	-	50
* Williamson	100	31	-	-	-	-	-	-	100	96
 NORTH CAROLINA										
Asheville	1000	336128	38	75503	42	89245	910	90419	900	19322
* Azalea	5	2	-	-	-	-	-	-	-	400
Black Mountain	24	3	-	-	-	-	-	-	-	-
Blowing Rock	1453	138945	100	17405	-	-	-	-	-	-
* Boone	100	5	-	-	-	-	-	-	-	-
Burgaw	24	22	-	-	-	-	-	-	-	-
Burlington	-	100	-	200	3	300	62	300	34	193
* Calypso	5	1	-	-	-	-	-	-	200	1
Canton	94	3	-	100	-	-	-	-	-	-
Charlotte	-	500	5	594	25	600	12	600	37	788
Clinton	25	5	-	-	-	-	-	-	13	400
* Columbia	24	1	-	-	-	-	-	-	5	400
Dunn	50	222	-	-	-	-	-	-	-	8
Durham	-	300	2	600	5	598	27	600	58	394
* East Flat Rock	9	2	-	-	-	-	-	-	6	399
East Spencer	50	11	100	127	100	83	238	349	200	150
Elizabeth City	196	72	100	38	199	31	300	53	29	194
Fayetteville	50	2	184	-	280	7	-	-	11	197
* Flat Rock	50	1	-	-	-	-	-	-	-	200
Gaston	291	60	300	52	200	106	-	-	-	400
Goldsboro	-	100	-	200	3	200	-	-	200	1
Greensboro	389	8	500	19	600	19	900	98	1000	384
Hamlet	100	1	100	4	200	3	40	97	334	370
Henderson	-	-	-	-	-	-	-	1	100	15
Hendersonville	568	20000	195	785	100	1718	-	-	-	400
* Hickory	100	2	-	-	-	-	-	-	-	2
High Point	199	26	300	9	398	18	597	84	600	371
Kinston	-	-	-	-	-	-	-	10	200	1
* Lenoir	88	4	-	-	-	-	-	-	-	-
Lexington	199	2	-	-	100	-	197	4	200	150
Lumberton	25	-	-	-	-	-	-	8	196	1
* Marshall	100	1	-	-	-	-	-	-	-	-
Mt. Olive	25	2	-	-	-	-	-	-	-	-
* North Wilkesboro	85	1	-	-	-	-	-	-	-	100
* Old Fort	25	1	-	-	-	-	-	-	-	-
Oteen	23	82	-	-	-	-	-	-	-	-
Oxford	-	-	-	-	-	-	-	-	-	-
Raleigh	400	35	500	13	593	46	599	68	600	400
Reidsville	189	2	200	19	100	4	-	-	98	100
Rocky Mount	-	200	14	193	16	301	26	300	12	400
Salisbury	200	88	200	58	215	29	100	232	200	395
Sanford	-	-	-	93	-	-	-	100	11	395
Spencer	45	63	100	4	101	-	246	52	200	407
* Spruce Pine	75	6	-	-	-	-	-	157	300	526
Statesville	50	-	198	1	-	-	-	-	200	300
Tarboro	-	-	-	100	-	107	1	100	1	200
Thomasville	-	-	-	-	-	-	-	200	2	200
Wake Forest	-	-	-	-	-	-	-	-	25	35
* Warsaw	25	10	-	-	-	-	-	-	-	1
* Washington	40	2	-	-	-	-	-	-	-	-
Waynesville	90	-	98	-	50	1	97	13	100	-
Weldon	-	-	100	-	98	9	97	13	3	30
* West Jefferson	75	13	-	-	-	-	-	-	-	-
Wilmington	150	3	270	38	497	18	600	52	600	400
Wilson	200	3	200	12	200	11	198	8	200	200
Winston-Salem	-	-	402	4	595	23	1195	97	1200	37
						366	1600	1182	-	109

* First record

JAPANESE BEETLE TRAPPING
1935 - 1944

Location	1944		1943		1942		1941		1940		1939		1938		1937		1936		1935	
	Traps	J.B.																		
OHIO																				
*Ashland	200	23	-	-	199	38	65	108	50	-	200	97	397	126	212	129	299	-	98	-
Ashtabula	300	203	300	169	300	38	340	108	299	53	400	-	397	-	212	129	299	-	103	-
Athens	-	-	100	1	125	218	198	-	100	1	-	97	-	126	212	198	-	-	-	
Bellevue	300	39	300	135	100	66	100	94	102	191	100	124	36	9	12	-	-	-	-	
Belpre	100	82	100	72	100	66	200	1	200	5	200	1	18	-	-	-	-	-	-	
Bucyrus	-	-	100	1	98	1	25	1	25	-	-	-	-	-	-	-	-	-	150	
Caldwell	50	-	100	1	297	5	-	-	-	-	-	-	-	-	-	-	-	-	-	
Chillicothe	-	-	200	-	297	5	877	-	-	-	-	-	-	-	-	-	-	-	-	
Cincinnati (City)	-	-	100	6	100	3	31	1	-	-	-	-	1200	-	297	-	300	1	171	
Cincinnati (Airport)	99	5	100	6	303	32	365	159	300	371	200	184	196	13	200	1	200	6	800	
Conneaut	200	50	260	34	140	19	95	120	91	-	-	-	-	-	-	-	-	-	-	
East Conneaut }	200	2	140	19	303	32	-	-	-	-	-	-	-	-	-	-	-	-	-	
Crestline	200	27	200	24	100	20	-	-	300	1	299	1	400	2	-	-	-	-	-	
Elyria	193	-	200	2	200	-	-	-	300	-	-	-	-	-	-	-	-	-	-	
Fostoria	200	1	200	2	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Fowlers Mills	200	15	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Gallipolis	300	12	300	329	295	2520	200	444	200	769	200	217	197	20	199	12	100	7	-	
*Geneva	-	8	-	-	-	-	195	-	-	-	-	-	25	-	-	-	-	-	-	
Lancaster	-	-	-	-	-	-	-	-	200	-	-	-	195	-	-	-	-	-	-	
Lima	200	-	200	1	296	-	300	-	-	-	-	-	-	-	-	-	-	280	300	
Lorain	200	9	200	7	296	2	-	-	-	-	-	-	-	-	-	-	-	400	350	
Marietta	200	229	300	434	199	126	300	10	300	38	400	300	48	260	19	284	45	300	121	
Marion	300	17	200	50	300	28	-	-	50	1	42	171	-	99	-	387	400	400	12	
Millersburg	-	-	200	-	200	5	85	-	200	-	-	-	-	-	-	-	-	-	-	
Mount Vernon	-	-	200	-	200	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Nelsonville	50	-	100	1	98	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
New Concord	100	30	100	19	97	6	25	1	35	1	26	-	-	-	-	-	-	-	-	
Norwalk	-	-	200	-	200	1	55	-	100	1	200	-	97	-	-	-	-	-	-	
*Painesville	-	7	-	-	-	-	-	-	-	-	-	-	199	-	191	-	200	-	192	
Rockbridge	50	1	40	34	35	167	-	-	-	-	-	-	-	-	-	-	-	-	-	
Sandusky	200	-	200	2	199	-	-	-	-	-	-	-	100	12	1	382	-	200	-	
*Shelby	100	1	-	-	97	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
South Zanesville	100	4	100	29	100	318	175	1076	-	-	-	-	-	-	-	-	-	-	-	
Tiffin	-	-	200	-	300	1	300	-	321	1	-	-	-	-	-	200	-	-	-	
Van Wert	-	-	100	-	100	-	-	-	-	-	-	-	-	-	-	196	-	-	-	
Washington C.H.	199	1	-	-	-	-	20	-	20	-	30	-	30	-	30	-	-	-	125	
Wellington	50	1	100	-	99	-	20	-	20	-	30	-	30	-	-	-	-	-	-	
Willard	100	3	100	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
Zanesville	300	1	200	4	200	5	298	1	300	23	200	5	-	398	-	400	-	396	1	
PENNSYLVANIA																				
Greenville	-	-	300	14	-	-	300	5	300	2	200	1	-	-	100	-	195	-	-	
SOUTH CAROLINA																				
Charleston	23	-	25	2	255	1	300	5	300	12	-	-	794	2	783	2	730	11	755	
Columbia	-	-	300	-	599	1	-	-	-	-	-	-	-	-	-	792	-	800	5.5	
Florence	200	2	200	76	100	43	200	7	200	8	12	12	-	-	-	297	-	300	306	
Greenville	400	47	600	20	300	16	596	18	900	12	800	5	765	6	750	1	794	33	799	
Spartanburg	50	-	300	1	300	1	-	-	-	-	-	-	-	-	-	398	-	400	89	
Sumter	-	-	200	-	200	-	-	-	-	-	-	-	-	-	-	200	-	200	-	
TENNESSEE																				
Bristol	150	1	100	5	131	2	-	-	-	-	-	-	-	-	-	172	-	151	-	
Kingsport	300	-	183	5	-	-	-	-	-	-	-	-	-	-	-	175	200	-	-	
*Mountain City	105	6	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
VERMONT																				
Barre	-	-	197	-	192	17	293	21	-	-	-	-	-	-	-	-	-	-	-	
*Richmond	50	1	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	
VIRGINIA																				
Ashland	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	60	-	50	1	
Berryville	-	-	100	24	147	7	100	9	100	7	30	3	29	-	60	-	50	100	7	
Bristol	150	2	100	24	-	-	-	-	-	-	-	-	33	-	-	-	-	-	-	
Buena-Vista	25	-	-	-	-	-	-	-	-	-	-	-	4	145	-	2	125	1	-	
Clifton Forge	25	-	-	-	-	-	-	-	-	-	-	-	99	-	100	1	100	1	-	
Columbia	-	-	-	-	-	-	10	1	-	-	-	-	-	-	-	84	-	100	-	
Courtland (Southampton County)	-	-	-	-	-	-	20	10	5	-	20	1	-	-	-	10	-	10	-	
Dayton	-	-	-	-	-	-	100	18	40	4	200	5	-	-	-	-	-	-	-	
Franklin (Southampton County)	-	-	-	-	-	-	100	18	40	4	200	5	-	-	-	199	6	225	-	
Harrisonburg	100	11	200	22	100	18	40	4	200	5	-	-	-	-	-	197	1	200	200	
Hopewell	-	-	-	-	-	-	-	-	-	-	-	-	6	197	-	200	-	200		
Lexington	100	-	100	23	-	-	-	-	-	-	-	-	-	-	-	92	-	100	-	
Luray	25	-	100	23	95	7	20	1	10	1	-	-	44	-	1	789	3	398	394	
Lynchburg	300	5	200	25	-	-	300	-	-	-	-	-	22	1	17	3	10	5	-	
Milford	-	-	-	-	-	12	1	10	1	10	-	-	8	-	-	30	-	25	-	
Mineral	-	-	-	-	-	45	2	14	1	20	-	-	25	1	10	20	3	25	48	
Mt. Jackson	-	-	-	-	-	45	2	8	1	20	-	-	18	1	-	-	-	15	2	
New Market	25	-	-	-	-	45	2	14	1	20	-	-	18	1	-	-	-	30	3	
Orange	-	-	-	-	-	45	2	8	1	20	-	-	25	1	-	-	-	25	2	
Rappahannock Academy	-	-	-	-	-	87	3	10	2	30	-	-	18	1	-	-	-	100	96	
Salem	50	-	-	-	-	92	3	10	2	30	-	-	198</							

COOPERATIVE STATE-FEDERAL SOIL TREATMENTS FOR JAPANESE BEETLE CONTROL

AT ISOLATED INFESTATIONS

1942 - 1945

State and City	Japanese Beetles	Soil Treatments		Japanese Beetles	Soil Treatments		Japanese Beetles	Soil Treatments	
	Trapped 1942 (Number)	Fall 1942 and Spring 1943 (Acres)	Trapped 1943 (Number)	Fall 1943 and Spring 1944 (Acres)	Trapped 1944 (Number)	Fall 1944 or Proposed for Spring 1945 (Acres)			
FLORIDA									
JACKSONVILLE	1	-	0	-	5	7.5 (C)			
GEORGIA									
Atlanta	4	-	8	2.5	.. 17	1.35 (C)			
Augusta	5	-	11	1.5	.. 9	1.35 (C)			
Toccoa	3	-	21	-	.. 17	-			
ILLINOIS									
Chicago	170	46.4	257	139.3	.. 708	275.0 (C-T)			
East St. Louis	1	-	16	9.5	.. 2	-			
Highland Park	173	20.0	63	28.2	.. 10	-			
INDIANA									
Elkhart	6	-	9	-	.. 35	37.6 (C)			
Fort Wayne	4	-	88	-	.. 96	7.55 (C)			
Hammond	8	-	24	32.6	.. 54	56.15 (C)			
Indianapolis	7	-	32	14.57	.. 20	23.4 (C)			
Logansport	9	5.7	7	-	.. 7	6.0 (T)			
Richmond	55	18.9	17	20.35	.. 4	-			
MICHIGAN									
Birmingham	5	4.6	0	-	.. 0	-			
Dearborn	1	2.1	2	-	.. 2	-			
Detroit	32	36.0	86	90.0	.. 95	48.3 (C)			
Flint	80	45.7	37	37.7	.. 11	8.5 (C)			
Lincoln Park	22	4.1	0	-	.. 0	-			
Melvindale	4	5.0	1	-	.. 0	-			
River Rouge	1	1.73	24	20.8	.. 42	32.6 (C)			
MISSOURI									
#Kansas City (Airport)	-	-	-	-	1	1.58 (C)			
St. Louis	6	7.3	14	13.0	4	1.91 (C)			
NEW YORK									
Avon	196	8.0	37	-	.. 0	-			
Geneva	99	-	37	23.1	.. 17	44.0 (C)			
Jamestown	98	10.9	154	5.7	.. 31	15.0 (C)			
Newark	65	30.8	1	-	.. 7	11.33 (C)			
Niagara Falls	216	29.5	71	16.0	.. 20	19.0 (C)			
North Tonawanda	4	-	7	-	.. 22	21.0 (D)			
Ogdensburg	14	-	315	6.0	.. 22	-			
Silver Creek	104	16.4	60	8.8	.. 7	-			
Waterloo	33	5.0	171	7.0	.. 18	25.0 (D)			
Westfield	-	-	27	8.3	.. 2	-			
#Williamson	-	-	0	-	.. 31	10.5 (C)			
NORTH CAROLINA									
Blowing Rock	-	-	17405	25.0	138945	-			
#Burgaw	-	-	-	-	22	8.8 (C)			
Charlotte	25	17.8	5	-	-	-			
#Dunn	-	-	-	-	222	35.3 (C)			
Durham	5	8.8	2	-	-	-			
Elizabeth City	31	23.3	38	6.1	.. 72	3.7 (C)			
Gastonia	106	31.1	38	9.3	.. 60	15.4 (C)			
Greensboro	19	14.5	12	5.0	.. 8	-			
Hendersonville	1718	105.9	785	75.6	20000	-			
High P'nt	18	20.5	9	-	26	10.6 (C)			
#Lenoir	-	-	-	-	4	3.0 (C)			
Lexington	0	-	-	-	2	1.2 (C)			
Raleigh	46	43.0	13	-	.. 35	8.1 (C)			
Reidsville	4	-	19	5.2	.. 7	-			
Rocky Mount	16	9.7	14	5.9	.. 88	9.3 (C)			
Salisbury	29	-	58	8.8	.. 63	6.0 (C)			
Spencer	0	-	4	-	.. 6	2.3 (C)			
#Spruce Pine	-	-	-	-	10	4.3 (C)			
#Warsaw	-	-	-	-	-	-			
Weldon	9	12.1	0	-	-	-			
#West Jefferson	-	-	-	-	.. 13	4.0 (T)			
Wilmington	18	-	38	3.2	.. 2	-			
Wilson	11	5.4	12	-	.. 2	-			
OHIO									
#Ashland	-	-	-	-	23	21.7 (C)			
Ashtabula	38	42.0	169	42.8	.. 20	-			
Bellevue	218	123.1	135	10.4	.. 26	32.7 (C)			
Belpre	66	-	72	5.1	.. 82	31.12 (C)			
Caldwell	1	3.3	1	3.3	.. 0	-			
Chillicothe	5	12.1	0	-	-	-			
Cincinnati (Lunken Airport)	3	6.5	6	10.0	.. 5	10.2 (C)			
Conneaut	32	14.7	34	16.3	.. 50	-			
Crestline	20	26.4	24	16.4	.. 27	52.7 (C)			
East Conneaut	120	7.6	9	1.9	.. 5	14.0 (C)			
Elyria	0	-	-	-	.. 1	-			
Fostoria	-	-	-	-	.. 1	-			
Flowers Mills	-	-	-	-	.. 1	-			
Gallipolis	2520	47.6	329	3.3	.. 12	23.18 (C)			
#Geneva	-	-	1	4.6	.. 8	5.8 (C)			
Lima	-	-	1	-	.. 0	-			
Lorain	2	1.9	7	10.5	.. 22	17.5 (C)			
Marietta	126	75.0	434	22.8	.. 17	34.1 (C)			
Marion	28	28.0	50	36.0	-	-			
Mt. Vernon	5	6.0	0	-	-	-			
Nelsonville	2	2.1	1	-	-	-			
New Concord	6	7.3	19	27.6	.. 0	18.0 (C)			
#Painesville	-	-	-	-	.. 30	12.7 (C)			
Rockbridge	167	4.0	34	-	.. 1	-			
South Zanesville	318	1.5	29	10.9	.. 4	4.35 (C)			
Van Wert	0	-	1	-	.. 1	12.65 (C)			
Willard	-	-	1	-	.. 1	-			
Zanesville	5	10.2	4	6.5	.. 1	-			

* All beetles caught in previously treated area. No soil treating required.

** Captures consisted of isolated, single beetles only. No soil treating required.

† First record.

(C) Soil treating completed.

(D) Soil treating under discussion.

(T) Soil treating planned or assured.

(C-T) Partially completed; balance assured, Spring 1945.

COOPERATIVE STATE-FEDERAL SOIL TREATMENTS FOR JAPANESE BEETLE CONTROL

AT ISOLATED INFESTATIONS

1942 - 1945

State and City	Japanese Beetles Trapped 1942 (Number)	Soil Treatments Fall 1942 and Spring 1943 (Acres)		Japanese Beetles Trapped 1943 (Number)	Soil Treatments Fall 1943 and Spring 1944 (Acres)		Japanese Beetles Trapped 1944 (Number)	Soil Treatments Fall 1944 or Proposed for Spring 1945 (Acres)	
	43	4.7	76	20	-	1.15	2	15.0	(D)
SOUTH CAROLINA									
Florence	43	4.7	76	20	-	1.15	2	15.0	(D)
Greenville	16	7.0	20	-	-	1.15	2	15.0	(D)
TENNESSEE									
Bristol	2	-	5	-	1.15	1	-	-	-
Kingsport	-	-	5	-	1.15	0	-	-	-
#Mountain City	-	-	-	-	-	1.75	(C)	-	-
VIRGINIA									
Bristol	7	-	24	2.0	** 2	-	-	-	-
Dayton	10	1.2	-	-	-	-	-	-	-
Harrisonburg	18	11.9	22	-	-	11	-	-	-
Lexington	-	-	23	4.7	-	0	-	-	-
Luray	7	6.2	10	-	6.3	0	-	-	-
Waynesboro	-	-	19	8.7	-	0	-	-	-
Woodstock	67	15.9	-	-	-	-	-	-	-

* All beetles caught in previously treated area. No soil treating required.

** Captures consisted of isolated, single beetles only. No soil treating required.

† First record.

{C} Soil treating completed.

{D} Soil treating under discussion.

{T} Soil treating planned or assured.

(C-T) Partially completed; balance assured Spring 1945.

STATE SUMMARY OF SOIL TREATMENTS

State	Fall 1942 and Spring 1943	Fall 1943 and Spring 1944	Fall 1944 or Proposed for Spring 1945	Total
Florida	-	-	7.5	7.5
Georgia	-	5.5	2.7	8.2
Illinois	66.4	177.0	275.0	518.4
Indiana	24.6	61.52	194.7	280.82
Michigan	99.23	148.5	89.2	336.95
Missouri	7.3	13.0	3.49	23.78
New York	100.7	72.9	145.83	319.43
North Carolina	292.1	143.0	112.0	547.1
Ohio	423.9	233.3	290.68	947.58
South Carolina	11.7	-	15.0	26.70
Tennessee	35.2	8.0	1.75	9.75
Virginia	-	21.7	-	56.90
	1061.13	890.42	1137.85	3089.40